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OM protein - protein search, using sw model

Run on: March 17, 2003, 07:21:20 ; Search time 7.10687 Seconds  
(without alignments)  
78.661 Million cell updates/sec

Title: US-09-787-082-9

Perfect score: 119

Sequence: 1 CCSPVCHLSNLTNGG 19

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued\_Patents\_AA.\*

- 1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep.\*
- 2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	96	80.7	16	1 US-08-477-383-54	Sequence 54, Appl
2	96	80.7	16	1 US-08-487-174-54	Sequence 54, Appl
3	96	80.7	16	1 US-08-480-750-54	Sequence 54, Appl
4	96	80.7	16	4 US-09-219-446B-2	Sequence 2, Appl
5	96	80.7	17	4 US-09-219-446B-3	Sequence 3, Appl
6	96	80.7	68	1 US-08-137-800-48	Sequence 48, Appl
7	96	80.7	68	1 US-08-477-383-48	Sequence 48, Appl
8	96	80.7	68	1 US-08-487-174-48	Sequence 48, Appl
9	96	80.7	68	1 US-08-480-750-48	Sequence 48, Appl
10	87	73.1	16	1 US-08-137-800-19	Sequence 19, Appl
11	87	73.1	16	1 US-08-477-383-19	Sequence 19, Appl
12	87	73.1	16	1 US-08-487-174-19	Sequence 19, Appl
13	87	73.1	16	1 US-08-480-750-19	Sequence 19, Appl
14	87	73.1	16	5 PCT-US96-07962-10	Sequence 10, Appl
15	76	63.9	16	4 US-09-219-446B-4	Sequence 4, Appl
16	58	48.7	44	4 US-09-488-799-91	Sequence 91, Appl
17	58	48.7	62	4 US-09-488-799-101	Sequence 101, Appl
18	57.5	48.3	320	4 US-09-183-861-22	Sequence 22, Appl
19	57.5	48.3	320	4 US-09-183-861-55	Sequence 55, Appl
20	57.5	48.3	320	4 US-09-022-765-22	Sequence 22, Appl
21	57.5	48.3	320	4 US-09-022-765-55	Sequence 55, Appl
22	57	47.9	16	1 US-08-137-800-15	Sequence 15, Appl
23	57	47.9	16	1 US-08-477-383-15	Sequence 15, Appl
24	57	47.9	16	1 US-08-487-174-15	Sequence 15, Appl
25	57	47.9	16	1 US-08-480-750-15	Sequence 15, Appl
26	57	47.9	18	1 US-08-137-800-32	Sequence 32, Appl
27	57	47.9	18	1 US-08-477-383-32	Sequence 32, Appl

28	57	47.9	18	1 US-08-487-174-32	Sequence 32, Appl
29	57	47.9	18	1 US-08-480-750-32	Sequence 32, Appl
30	57	47.9	62	4 US-09-488-799-89	Sequence 89, Appl
31	54	45.4	19	4 US-09-136-769A-3	Sequence 3, Appl
32	54	45.4	19	4 US-09-136-769A-14	Sequence 14, Appl
33	51	42.9	65	1 US-08-137-800-46	Sequence 46, Appl
34	51	42.9	65	1 US-08-477-383-46	Sequence 46, Appl
35	51	42.9	65	1 US-08-487-174-46	Sequence 46, Appl
36	51	42.9	65	1 US-08-480-750-46	Sequence 46, Appl
37	50	42.0	18	4 US-09-488-799-22	Sequence 22, Appl
38	50	42.0	63	4 US-09-488-799-93	Sequence 93, Appl
39	50	42.0	63	4 US-09-488-799-99	Sequence 99, Appl
40	49	41.2	63	4 US-09-488-799-97	Sequence 97, Appl
41	49	41.2	65	4 US-09-488-799-95	Sequence 95, Appl
42	48	40.3	589	1 US-07-668-648-2	Sequence 2, Appl
43	48	40.3	589	2 US-08-429-998-2	Sequence 2, Appl
44	48	40.3	589	2 US-08-431-333-2	Sequence 2, Appl
45	48	40.3	589	5 PCT-US91-02321-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1  
US-08-477-383-54  
; Sequence 54, Application US/08477383  
; Patent No. 5589340  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameurfino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/477,383  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137,800  
; FILING DATE: 19-OCT-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/084,848  
; FILING DATE: 29-JUN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Innen, Jeffrey L.  
; REGISTRATION NUMBER: 28,957  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-962-4810  
; TELEFAX: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 54:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 16 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:

; ORGANISM: Conus magus  
; FEATURE:  
; NAME/KEY: Modified-site  
; LOCATION: 16  
; OTHER INFORMATION: /note= "The C-terminus is  
; OTHER INFORMATION: amidated."  
US-08-477-383-54

Query Match 80.7%; Score 96; DB 1; Length 16;  
Best Local Similarity 100.0%; Pred. No. 3.1e-06;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCSPVCHLSNLC 15  
Db 2 CCSPVCHLSNLC 16

RESULT 2  
US-08-487-174-54  
; Sequence 54, Application US/08487174  
; Patent No. 5595972  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameurfino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/487.174  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137.800  
; FILING DATE: 19-OCT-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/084.848  
; FILING DATE: 29-JUN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Innen, Jeffrey L.  
; REGISTRATION NUMBER: 28,957  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-962-4810  
; TELEFAX: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 54:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 16 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus magus  
; FEATURE:  
; NAME/KEY: Modified-site  
; LOCATION: 16  
; OTHER INFORMATION: /note= "The C-terminus is  
; OTHER INFORMATION: amidated."

US-08-487-174-54

Query Match 80.7%; Score 96; DB 1; Length 16;  
Best Local Similarity 100.0%; Pred. No. 3.1e-06;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCSPVCHLSNLC 15  
Db 2 CCSPVCHLSNLC 16

RESULT 3  
US-08-480-750-54  
; Sequence 54, Application US/08480750  
; Patent No. 5633347  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameurfino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
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; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/480.750  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137.800  
; FILING DATE: 19-OCT-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/084.848  
; FILING DATE: 29-JUN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Innen, Jeffrey L.  
; REGISTRATION NUMBER: 28,957  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-962-4810  
; TELEFAX: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 54:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 16 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus magus  
; FEATURE:  
; NAME/KEY: Modified-site  
; LOCATION: 16  
; OTHER INFORMATION: /note= "The C-terminus is  
; OTHER INFORMATION: amidated."  
US-08-480-750-54

Query Match 80.7%; Score 96; DB 1; Length 16;  
Best Local Similarity 100.0%; Pred. No. 3.1e-06;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCSNPVCHLEHSNLC 15  
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Db 2 CCSNPVCHLEHSNLC 16

## RESULT 4

US-09-219-446B-2  
; Sequence 2, Application US/09219446B  
; Patent No. 6265541  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: McIntosh, J. Michael  
; APPLICANT: Yoshikami, Doju  
; APPLICANT: Cartier, G. Edward  
; APPLICANT: Luo, Siqin  
; TITLE OF INVENTION: Uses of Utah Research Foundation  
; FILE REFERENCE: Uses of Alpha-Conotoxin Peptides  
; CURRENT APPLICATION NUMBER: US/09/219,446B  
; PRIOR FILING DATE: 1998-12-23  
; PRIOR APPLICATION NUMBER: US 60/080,588  
; PRIOR FILING DATE: 1998-04-03  
; PRIOR APPLICATION NUMBER: US 60/070,153  
; PRIOR FILING DATE: 1997-12-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Conus magus  
US-09-219-446B-2

Query Match 80.7%; Score 96; DB 4; Length 16;  
Best Local Similarity 100.0%; Pred. No. 3.1e-06;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCSNPVCHLEHSNLC 15  
| | | | | | | | | | | | | | | | | |  
Db 2 CCSNPVCHLEHSNLC 16

## RESULT 5

US-09-219-446B-3  
; Sequence 3, Application US/09219446B  
; Patent No. 6265541  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: McIntosh, J. Michael  
; APPLICANT: Yoshikami, Doju  
; APPLICANT: Cartier, G. Edward  
; APPLICANT: Luo, Siqin  
; TITLE OF INVENTION: Uses of Utah Research Foundation  
; FILE REFERENCE: Uses of Alpha-Conotoxins  
; CURRENT APPLICATION NUMBER: US/09/219,446B  
; PRIOR FILING DATE: 1998-12-23  
; PRIOR APPLICATION NUMBER: US 60/080,588  
; PRIOR FILING DATE: 1998-04-03  
; PRIOR APPLICATION NUMBER: US 60/070,153  
; PRIOR FILING DATE: 1997-12-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Tyr derivative  
US-09-219-446B-3

Query Match 80.7%; Score 96; DB 4; Length 17;  
Best Local Similarity 100.0%; Pred. No. 3.3e-06;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CCSNPVCHLEHSNLC 15  
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Db 3 CCSNPVCHLEHSNLC 17

## RESULT 6

US-08-137-800-48  
; Sequence 48, Application US/08137800  
; Patent No. 5514774  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: McIntosh, J. Michael  
; APPLICANT: Santos, Aneurfin D.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/137,800  
; FILING DATE: 19-OCT-1993  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ihnen, Jeffrey L.  
; REGISTRATION NUMBER: 28,957  
; REFERENCE/DOCKET NUMBER: 24260-104763  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-962-4810  
; TELEFAX: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 48:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 68 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus magus  
US-08-137-800-48

Query Match 80.7%; Score 96; DB 1; Length 68;  
Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCSNPVCHLEHSNLC 15  
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Db .50 CCSNPVCHLEHSNLC 64

## RESULT 7

US-08-477-383-48  
; Sequence 48, Application US/08477383  
; Patent No. 5589340  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Aneurfin S.  
; TITLE OF INVENTION: Conotoxin Peptides

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RESULT 8
US-08-487-174-48
; Sequence 48, Application US/08487174
; Patent NO. 5595972
; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Hillyard, David R.
; APPLICANT: Macintosh, J. Michael
; APPLICANT: Santos, Ameurfino S.
; TITLE OF INVENTION: Conotoxin Peptides
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Venable, Baetjer, Howard
; STREET: 1201 New York Avenue, N.W.,
; CITY: Washington
; STATE: DC
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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1  RESULT 9
2  US-08-480-750-48
3  ; Sequence 48, Application US/08480750
4  ; Patent No. 5633347
5  ; GENERAL INFORMATION:
6  ; APPLICANT: Olivera, Baldomero M.
7  ; APPLICANT: Cruz, Lourdes J.
8  ; APPLICANT: Hillyard, David R.
9  ; APPLICANT: Macintosh, J. Michael
10 ; APPLICANT: Santos, Ameurfino S.
11 ; TITLE OF INVENTION: Conotoxin Peptides
12 ; NUMBER OF SEQUENCES: 59
13 ; CORRESPONDENCE ADDRESS:
14 ; ADDRESSEE: Venable, Baetjer, Howard & Civiletti
15 ; STREET: 1201 New York Avenue, N.W., Suite 1000
16 ; CITY: Washington
17 ; STATE: DC
18 ; COUNTRY: U.S.A.
19 ; ZIP: 20005
20 ; COMPUTER READABLE FORM:
21 ; MEDIUM TYPE: Floppy disk
22 ; COMPUTER: IBM PC compatible
23 ; OPERATING SYSTEM: PC-DOS/MS-DOS
24 ; SOFTWARE: Patent In Release #1.0, Version #1.30
25 ; CURRENT APPLICATION DATA:
26 ; APPLICATION NUMBER: US/08/480,750
27 ; FILING DATE: 07-JUN-1995
28 ; CLASSIFICATION: 530
29 ; PRIOR APPLICATION DATA:
30 ; APPLICATION NUMBER: US 08/137,800
31 ; FILING DATE: 19-OCT-1993
32 ; PRIOR APPLICATION DATA:
33 ; APPLICATION NUMBER: US 08/084,848

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;; FILING DATE: 29-JUN-1993  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Ihnen, Jeffrey L.  
;; REGISTRATION NUMBER: 28,957  
;; REFERENCE/DOCKET NUMBER: 24260-107673  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 202-962-4810  
;; TELEFAX: 202-962-8300  
;; INFORMATION FOR SEQ ID NO: 48:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 68 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS:  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
;; HYPOTHETICAL: NO  
;; ORIGINAL SOURCE:  
;; ORGANISM: Conus magus

US-08-480-730-48  
Query Match 80.7%; Score 96; DB 1; Length 68;  
Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCSNPVCHLEHSNLC 15  
Db 50 CCSNPVCHLEHSNLC 64

RESULT 10  
US-08-137-800-19  
; Sequence 19, Application US/08137800  
; Patent No. 5514774

;; GENERAL INFORMATION:  
;; APPLICANT: Olivera, Baldomero M.  
;; APPLICANT: Cruz, Lourdes J.  
;; APPLICANT: Hillyard, David R.  
;; APPLICANT: McIntosh, J. Michael  
;; APPLICANT: Santos, Ameurfin D.  
;; TITLE OF INVENTION: Conotoxin Peptides  
;; NUMBER OF SEQUENCES: 53  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
;; STREET: 1201 New York Avenue N.W., Suite 1000  
;; CITY: Washington  
;; STATE: DC  
;; ZIP: 20005

;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: WordPerfect 5.1  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/137,800  
;; FILING DATE: 19-OCT-1993  
;; CLASSIFICATION: 530  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Ihnen, Jeffrey L.  
;; REGISTRATION NUMBER: 28,957  
;; REFERENCE/DOCKET NUMBER: 24260-104763  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 202-962-8300  
;; TELEFAX: 202-962-8300  
;; INFORMATION FOR SEQ ID NO: 19:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 16 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
;; HYPOTHETICAL: NO  
;; ANTI-SENSE: NO  
;; ORIGINAL SOURCE:  
;; ORGANISM: Conus magus

;; FEATURE:  
;; NAME/KEY: Modified-site  
;; LOCATION: 6..7  
;; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro"  
US-08-137-800-19

Query Match 73.1%; Score 87; DB 1; Length 16;  
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Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 CCSNPVCHLEHSNLC 15  
Db 2 CCSNPVCHLEHSNLC 16

RESULT 11  
US-08-477-383-19  
; Sequence 19, Application US/08477383  
; Patent No. 5589340

;; GENERAL INFORMATION:  
;; APPLICANT: Olivera, Baldomero M.  
;; APPLICANT: Cruz, Lourdes J.  
;; APPLICANT: Hillyard, David R.  
;; APPLICANT: Macintosh, J. Michael  
;; APPLICANT: Santos, Ameurfin S.  
;; TITLE OF INVENTION: Conotoxin Peptides  
;; NUMBER OF SEQUENCES: 59  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
;; STREET: 1201 New York Avenue, N.W., Suite 1000  
;; CITY: Washington  
;; STATE: DC  
;; COUNTRY: U.S.A.  
;; ZIP: 20005

;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent In Release #1.0, Version #1.30  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/477,383  
;; FILING DATE: 07-JUN-1995  
;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 08/137,800  
;; FILING DATE: 19-OCT-1993

;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 08/084,848  
;; FILING DATE: 29-JUN-1993  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Ihnen, Jeffrey L.  
;; REGISTRATION NUMBER: 28,957  
;; REFERENCE/DOCKET NUMBER: 24260-107673  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 202-962-4810  
;; TELEFAX: 202-962-8300  
;; INFORMATION FOR SEQ ID NO: 19:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 16 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS:  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
;; HYPOTHETICAL: NO  
;; ORIGINAL SOURCE:  
;; ORGANISM: Conus magus

;; FEATURE:  
;; NAME/KEY: Modified-site  
;; LOCATION: 6  
;; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro."  
;; FEATURE:  
;; NAME/KEY: Modified-site  
;; LOCATION: 16

OTHER INFORMATION: /note= "The C-terminus is  
OTHER INFORMATION: preferably amidated."  
US-08-477-383-19

Query Match 73.1%; Score 87; DB 1; Length 16;  
Best Local Similarity 93.3%; Pred. No. 4.1e-05;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCNPNVCHLEHSLC 15  
      |||||  
DB 2 CCNPNVCHLEHSLC 16

RESULT 12

US-08-487-174-19  
; Sequence 19, Application US/08487174  
; Patent No. 5595972  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameurfino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/487,174  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137,800  
; FILING DATE: 19-OCT-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/084,848  
; FILING DATE: 29-JUN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ihnen, Jeffrey L.  
; REGISTRATION NUMBER: 28,957  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELEPHONE: 202-962-4810  
; TELEFAX: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 19:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 16 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus magus  
; FEATURE:  
; NAME/KEY: Modified-site  
; LOCATION: 6  
; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro."  
; FEATURE:  
; NAME/KEY: Modified-site  
; LOCATION: 16  
; OTHER INFORMATION: /note= "The C-terminus is  
; OTHER INFORMATION: preferably amidated."

US-08-487-174-19

Query Match 73.1%; Score 87; DB 1; Length 16;  
Best Local Similarity 93.3%; Pred. No. 4.1e-05;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCNPNVCHLEHSLC 15  
      |||||  
DB 2 CCNPNVCHLEHSLC 16

RESULT 13

US-08-480-750-19  
; Sequence 19, Application US/08480750  
; Patent No. 5633347  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameurfino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/480,750  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137,800  
; FILING DATE: 19-OCT-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/084,848  
; FILING DATE: 29-JUN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ihnen, Jeffrey L.  
; REGISTRATION NUMBER: 28,957  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-962-4810  
; TELEFAX: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 19:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 16 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus magus  
; FEATURE:  
; NAME/KEY: Modified-site  
; LOCATION: 6  
; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro."  
; FEATURE:  
; NAME/KEY: Modified-site  
; LOCATION: 16  
; OTHER INFORMATION: /note= "The C-terminus is  
; OTHER INFORMATION: preferably amidated."

US-08-480-750-19

Query Match 73.1%; Score 87; DB 1; Length 16;  
Best Local Similarity 93.3%; Pred. No. 4.1e-05;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCSNPVCHLEHSNLC 15  
DB 2 CCSNVXCHLEHSNLC 16

## RESULT 14

PCT-US96-07962-10

; Sequence 10, Application PC/TUS9607962

; GENERAL INFORMATION:

; APPLICANT: University of Utah Research Foundation

; TITLE OF INVENTION: Use of Conotoxin Peptides U002 and MII

; TITLE OF INVENTION: for Treating or Detecting Small-Cell Lung Carcinoma

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Venable, Baetjer, Howard &amp; Civiletti

; STREET: 1201 New York Avenue, N.W., Suite 1000

; CITY: Washington

; STATE: DC

; COUNTRY: U.S.A.

; ZIP: 20005

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: MS-WINDOWS

; SOFTWARE: Word 6.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US96/07962

; FILING DATE: 04-JUN-1996

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/487,174

; FILING DATE: 07-JUN-1995

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-962-4810

; TELEFAX: 202-962-8300

; INFORMATION FOR SEQ ID NO: 10:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 16 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; HYPOTHETICAL: NO

; ORIGINAL SOURCE:

; ORGANISM: Conus magus

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 6

; OTHER INFORMATION: /note= "Xaa is Pro or Hydroxy-Pro."

; FEATURE:

; NAME/KEY: Modified-site

; LOCATION: 16

; OTHER INFORMATION: /note= "the C-terminus is

; OTHER INFORMATION: preferably amidated."

PCT-US96-07962-10

Query Match 73.1%; Score 87; DB 5; Length 16;  
Best Local Similarity 93.3%; Pred. No. 4.1e-05;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCSNPVCHLEHSNLC 15  
DB 2 CCSNVXCHLEHSNLC 16

## RESULT 15

US-09-219-446B-4

; Sequence 4, Application US/09219446B

; Patent No. 6265541

## ; GENERAL INFORMATION:

; APPLICANT: Olivera, Baldomero M.

; APPLICANT: McIntosh, J. Michael

; APPLICANT: Yoshikami, Doju

; APPLICANT: Cartier, G. Edward

; APPLICANT: Luo, Siqin

; APPLICANT: University of Utah Research Foundation

; TITLE OF INVENTION: Uses of Alpha-Conotoxin Peptides

; FILE REFERENCE: Uses of Alpha-Conotoxins

; CURRENT APPLICATION NUMBER: US/09/219,446B

; CURRENT FILING DATE: 1998-12-23

; PRIOR APPLICATION NUMBER: US 60/080,588

; PRIOR FILING DATE: 1998-04-03

; PRIOR APPLICATION NUMBER: US 60/070,153

; PRIOR FILING DATE: 1997-12-31

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: PatentIn ver. 2.0

; SEQ ID NO 4

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence:FAT derivative

; OTHER INFORMATION: of C. magus MII

US-09-219-446B-4

Query Match 63.9%; Score 76; DB 4; Length 16;

Best Local Similarity 80.0%; Pred. No. 0.00096;

Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCSNPVCHLEHSNLC 15

DB 2 CCSNPVCFATHSNLC 16

Search completed: March 17, 2003, 07:28:22

Job time : 7.10687 secs

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